\ INFOR	-1449			Docket Number 54632	2000321	Application Nu	mber 09/646	,807
	?;/ IN	ON DISCLO AN APPLIC	SURE CITATION ATION	Applicant Michael	Wayne GRAHA	M and Robert Norn	nan RICE	
1 8 2004	ig (v	se several sheets if	necessary)	Filing Date December 5	Filing Date December 5, 2000 Group Art Unit 1636 \ 6))			
ATEULIA PER	.§			Mailing Date	Novem	ber 2004		
& JENTON BOX	,		<u> </u>					
			U.S. PATE	NT DOCUMENTS				
Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing I Appro	
BW	1.	03/02/1993	US 5,190,931	Inouye				
BW	2.	05/04/1993	US 5,208,149	Inouye				
BW_	3.	12/21/1993	US 5,272,065	Inouye et al.				
	4.	09/04/2003	US 2003/0165894 A1	Waterhouse et al.				
Examiner	Ref.	Date	FOREIGN PA	TENT DOCUMEN Country	TS	Subclass	Transl	atio
Initials	No.	Date	Bocument Ivo.	Country	Class	Outerass	YES	NC
BW	5.	02/01/2001	AU 729454	Australia				
ī	6.	06/14/1995	EP 0465572B1	EP ·				
J1.	2	11/12/1002	WO 92/19732	WO				
	7.	11/12/1992	WU 92/19732	W O				
	8.	01/20/1994	 	wo				
			WO 94/01550	····				
	8.	01/20/1994	WO 94/01550 WO 95/23225	wo				
	8. 9.	01/20/1994 08/31/1995	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083	wo wo wo				
	8. 9. 10.	01/20/1994 08/31/1995 11/27/1997	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1	wo wo wo wo				
	8. 9. 10. 11.	01/20/1994 08/31/1995 11/27/1997 11/26/1998	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1 WO 99/61631	wo wo wo wo wo				
	8. 9. 10. 11.	01/20/1994 08/31/1995 11/27/1997 11/26/1998 09/30/1999	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1 WO 99/61631 WO 00/44895	wo wo wo wo wo				
	8. 9. 10. 11. 12. 13.	01/20/1994 08/31/1995 11/27/1997 11/26/1998 09/30/1999 12/02/1999	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1 WO 99/61631 WO 00/44895 WO 00/44914	WO WO WO WO WO WO				
	8. 9. 10. 11. 12. 13. 14.	01/20/1994 08/31/1995 11/27/1997 11/26/1998 09/30/1999 12/02/1999 08/03/2000	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1 WO 99/61631 WO 00/44895 WO 00/44914 WO 01/70949	wo wo wo wo wo wo wo				
	8. 9. 10. 11. 12. 13. 14. 15. 16.	01/20/1994 08/31/1995 11/27/1997 11/26/1998 09/30/1999 12/02/1999 08/03/2000 08/03/2000 09/27/2001 03/20/2003	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1 WO 99/61631 WO 00/44895 WO 00/44914 WO 01/70949 WO 03/022052	WO WO WO WO WO WO WO WO				
	8. 9. 10. 11. 12. 13. 14. 15.	01/20/1994 08/31/1995 11/27/1997 11/26/1998 09/30/1999 12/02/1999 08/03/2000 08/03/2000 09/27/2001	WO 94/01550 WO 95/23225 WO 97/44460 WO 98/53083 WO 99/49029A1 WO 99/61631 WO 00/44895 WO 00/44914 WO 01/70949 WO 03/022052 WO 03/027298	wo wo wo wo wo wo wo				

		Shock & Ol O
Form PTO-1449	Docket Number 546322000321	Application Number 09/646,807
THORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Michael Wayne GRAF	IAM and Robert Norman RICE
NOV 1 8 2004 (Ye several sheets if necessary)	Filing Date December 5, 2000	Group Art Unit 1636
HIV	Mailing Date Nov	ember 4 2004
E V. CO. Maria		

OTHER DOCUMENTS

(including author, tule, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title				
в₩	20.	Agrawal et al. (2003) "RNA Interference: Biology, Mechanism, and Applications" Microb. Mol. Bio. Rev. 67:657-685.				
21.		Agrawal et al. (1995) "Self-Stabilized Oligonucleotides as Novel Antisense Agents" pp 105-120.				
	22.	Bahramian et al. (1999) "Transcriptional and Posttranscriptional Silencing of Rodent α1(1) Collagen by a Homologous Transcriptionally Self-Silenced Transgene" Molecular and Cellular Biology 19 (1) 274-283.				
	23.	Bhan et al. (1997) "2",5"-Linked Oligo-3"-deoxyribonucleoside Phosphorothiate Chimeras: Thermal Stability and Antisense Inhibition of Gene Expression" Nucleic Acids Research 1 (16): 3310-3317.				
	24.	Boldin et al. (1996) "Involvement of MACH, a Novel MORT1/FADD-Interacting Protease, in Fas/APO-1- and TNF Receptor-Induced Cell Death" Cell 85: 803-815.				
	25.	Borecky et al. (1981-1982) "Therapeutic Use of Double-Stranded RNAs in Man" Tex Rep Biol Med 14: 575-581.				
	26.	Braich et al. (1997) Regiospecific Solid-Phase Synthesis of Branched Oligonucleotides Effect of Vicinal 2',5'- (or 2',3'-) and 3',5'-Phosphodiester Linkages on the Formation of Hairpin DNA" Bioconjugate Chem 8: 370-377.				
	27.	Carthew (2001) "Gene Silencing By Double-Stranded RNA" Curr. Op. Cell. Biol. 13: 244-248.				
	28.	Cohli et al. (1994) "Inhibition of HIV-1 multiplication in a human CD4+ lymphocytic cell line expressing antisense and sense RNA molecules containing HIV-1 packaging signal and Rev response element(s)" Antisense Research and Development 4: 19-26.				
	29.	Couzin (2002) "Small RNAs Make Big Splash" Science 298: 2296-2297.				
	30.	Czauderna (2003) "Structural Variations and Stabiling Modifications of Synthetic siRNAs in Mammalian Cells" Nucleic Acids Research 31 (11): 1-12.				
	31.	Doench et al. (2003) "siRNA Can Function as miRNAs" Genes and Development 17:438-442.				
	32.	Elbashir et al. (2001) Functional Anatomy of siRNAs for mediating Efficient RNAi in Drosophila Melanogaster Embryo Lysate" The EMBO Journal 20 (23): 6877-6888.				
	33.	Elbashir et al. (2002) "Analysis of Gene Function in Somatic Mammalian Cells Using Small Interfering RNAs" Methods 26: 199-213.				
	34.	Fire et al. (1991) "Production of Antisense RNA Leads to Effective and Specific Inhibition of Gene Expression in C. Elegans Muscle" Development 113(2): 503-514.				
BW	35.	Flavell, R. B. (1994) "Inactivation of Gene Expression in Plants as a Consequence of Specific Sequence Duplication" Proc. Natl. Acad. Sci., 91:3490-3496.				

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTC)-144	49	Docket Number 546322000321	Application Number 09/646,807		
(F INPO	٠.	ATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Michael Wayne GRA	HAM and Robert Norman RICE		
HOV 1 8 2004	<u></u>	(Use several sheets if necessary)	Filing Date December 5, 2000	Group Art Unit 1636		
KOV	ğ		Mailing Date No	vember /2, 2004		
	3					
BW	36.	Fraser et al. (1996) "Effects of c-myc f				
	37.	oocytes and early embryos of Xenopus Giordano et al. (2000) "RNAi Triggere				
	Melanogaster" Genetics 160:637-648. 38. Goff et al. (1997) "Analysis of Hoxd-13 and Hoxd-11 Misexpression in Chick Limb Buds Reveals					
	38.	that Hox Genes Affect Both Bone Con				
	39.	Catalytic Cleavage of RNA" Biochemi	stry 34: 4068-4076.			
	40. Griffey (1996) 2'O-Aminopropyl Ribonucleotides: A Zwitterrionic Modification That Enhances The Exonuclease Resistance and Biological Activity of Antisense Oligonucleotides" J. Med. Chem 39: 5100-5109.					
	Gryaznov, Sergei M. and Robert L. Letsinger (1993) "Template Controlled Coupling and Recombination of Oligonucleotide Blocks Containing Thiophosphoryl Groups" Nucleic Acids Research 21 (6): 1403-1408.					
	42.	Ha et al. (1996) "A Bilged 1in-4/1in-14 RNA Duplex is Sufficient For Caenorhabditis Elegans 1in-14 Temporal Gradient Formation" Gene and Development 10: 3041-3050.				
 	43.	Hannon (2002) "RNA Interference" Na	ature 418: 244-251.			
BW	44.	Hoke et al. (1991) "Effects of phospho hybridization and antiviral efficacy ver 19 (20): 5743-5748.				
	45	Hungarian Patent Office Search Repor P0101225, 1 page.	t mailed July 13, 2004, for H	lungary patent application no.		
	46.	International Search Report mailed on PCT/AU01/00297 filed March 16, 200		nt application no.		
	47.	International Search Report mailed on	November 14, 2002, for PC	C patent application no.		
	40	PCT/AU02/01326 filed September 27, Jorgensen et al. (1999) "Do Unintender		tribute To Sense Cocuppraction in		
BW	48.	Plants" TIG 15:11-12.				
	49.	Kennerdell et al. (2000) "Heritage Gen Nature Biotechnology 18:896-898.				
	50.	Kennerdell et al. (1998) "Use of dsRN and Frizzled 2 Act in the Wingless Pat		rence to Demonstrate that Frizzled		
	51.	Kibler et al. (1997) "Double Stranded I Cells" Journal of Virology 71(3): 1992		osis in Vaccinia Virus Infected		
	52.	Kitabwalla et al. (2002) "RNA InterferenceA New Weapon Against HIV and Beyond", N Engl J Med 347 (17): 1364-1367.				
	53.	Klink et al. (2000) The Efficacy of RNAi in the Study of the Plant Cytoskeleton" J. Plant Growth Reg. 19: 371-384.				
BW	54.	Kowolik (2001) "Locus Control Regio Position-Independent Transgene Expre				
EXAMI	NER:		DATE CONSIDERED:			
		Initial if citation considered, whether or not the citation do not considered. Include a copy of this form with n		w a line through the citation if not in		

Form P	TO-1449	· ·	Docket Number 546322000321	Application Number 09/646,807	
INF	ORMAT	ION DISCLOSURE CITATION	Applicant	<u> </u>	
/ ~	•	N AN APPLICATION	Michael Wayne GRAHAN	M and Robert Norman RICE	
uni 1		Use several sheets if necessary)	Filing Date December 5, 2000	Group Art Unit 1636	
HOV 1	<u> </u>		Mailing Date Novemb	ber/ 2 , 2004	
W.	· (tix				
PW 1	DE \$55.	Kowolik et al. (2002) "Preferential Tra			
- 5"		Pseudotyped By Sendai Virus F Protein Kozak (1989) "Circumstances and med			
	56.	eucaryotic mRNAs" Mol. Cell. Biol. 9:	:5134-5142.	· · · · · · · · · · · · · · · · · · ·	
	57.	Kreutzer et al. "Specific Inhibition of Meeting S169.			
	58.	Kumar et al. (1998) "Antisense RNA: Eukaryotes" Microbiology and Molecu	ular Biology Reviews 62 (4): 14	15-1434.	
	59.	Li et al. (2000) "Double-Stranded RNA 217(2):394-405. Erratum in: Dev. Biol		otype in Zebrafish" Dev. Biol.	
	60.	Liebhaber et al. (1992) "Translation in determined by its proximity to the AU			
1	61.	Lin et al. (1999) "Policing Rogue Gene			
	62.	Lingelbach et al. (1988) "An extended mRNA does not block translational elo			
	63.	Lipinski et al. (1997) "Experimental an Permeability in Drug Discovery and De 25.	nd Computational Approaches to	o Estimate Solubility and	
	64.	Lisziewicz et al. (1991) "Tat-Regulated Expression" New Biologist 3:82-89.	d Production of Multimerized T.	AR RNA Inhibits HIV-1 Gene	
	65.	Loomis et al. (1991) "Antisense RNA i results in a delay in cell-cell adhesion i			
	66.	Ma et al. (1993) "Design and Synthesis Biochemistry 32: 1751-1758.			
	67.	Majumdar et al. (1998) "Targeted Gene Oligonucleotides" Nature Genetics 20:		e Helix Forming	
	68.	McManus et al. (2002) "Gene Silencin (10): 737-747.		ring RNAs" Nat. Rev. Genet. 3	
	69.	Metzlaff et al. (1997) "RNA-Mediated Petunia" Cell 88:845-854.	RNA Degradation and Chalcon	e Synthase A Silencing in	
	70.	Mikoshiba et al. (1991) "Molecular bio expression of anti-sense RNA in myeli			
	71.	Milhaud et al. (1991) "Free and Liposo Interferon, Interleukin-6, and Cellular"	ome-Encapsulated Double-Stran	ded RNAs as Inducers of	
	72. Montgomery et al. (1998) "Double-Stranded RNA as a Mediator in Sequence-Specific Genetic Silencing and Co-Suppression" TIG 14 (7): 255-258.				
	73.	Montgomery et al. (1998) "RNA as a Target of Double-Stranded RNA-Mediated Genetic Interference in Caenorhabditis Elegans" Proc. Natl. Acad. Sci. 95: 15502-15507.			
BW	74.	Moss et al. (1997) "The Cold Shock De Elegans and is Regulated by the lin-4 F	omain Protein LIN-28 Controls	Development Timing in C.	
EXA	MINER:		DATE CONSIDERED:		
		tial if citation considered, whether or not the citation not considered. Include a copy of this form with n		fine through the citation if not in	

	Form PTO-1449		Docket Number 546322000321	Application Number 09/646,807	
Chro	RMAT	ION DISCLOSURE CITATION	Applicant		
	S IN	AN APPLICATION	Michael Wayne GRAHAM	and Robert Norman RICE	
HOV 1 8 20	or in a	Ise several sheets if necessary)	Filing Date December 5, 2000	Group Art Unit 1636	
			Mailing Date Novemb	et 2 , 2004 .	
(E10134)	ŢĹ.				
, BW	75.	Ngo et al. (1998) "Double-Stranded RI Natl. Acad. Sci. 95: 14687-14692.	NA Induces mRNA Degradation	in Trypanosoma Brucei" Proc.	
	76.	Nielsen et al. (1997) "A Novel Class of Synthesis of 2',3'-Bridged Monomers	f Conformation Restricted Oligo and RNA-Selective Hybridisatic	nucleotide Analogues:	
	77.	Nikiforov et al. (1992) "Oligodeoxynu	cleotides Containing 4-thiothym	idine and 6-	
		thiodeoxyguanosine as affinity labels f Methylase" Nucleic Acids Research 20		nuclease and Modification	
	78.	Okano et al. (1991) "Myelin basic prot	ein gene and the function of anti	sense RNA in its repression in	
		myelin-deficient mutant mouse" J. Neu			
	79.	Paddison et al. (2002) "Short Hairpin F Mammalian Cells" Genes and Develop		ce-Specific Silencing in	
	80.	Pegram et al. (1998) Phase II study of	Receptor-Enhanced Chemosensi	tivity Using Recombinant	
		Humanized Anti-p185HER2/neu Monoclo	nal HER2/Neu-Overexpressing	Metastatic Breast Cancer	
	 	Refractory to Chemotherapy Treatmen Pelletier et al. (1985) "Insertion mutage			
•	81.	region of a eukaryotic mRNA reduces			
	82.	Peng et al. (2001) "Development of an			
		Levels of Functionally Active Human	BMP4" Molecular Therapy 4 (2)	: 95-104.	
	83.	Piccin, et al. (2001) "Efficient and Her			
		Drosophila using a GAL4-Driven Hair	pin RNA Incorporating a Hetero	logous Spacer' Nucleic Acids	
	84.	Research, 29(12) E55:1-5. Plasterk et al. (2000) "The Silence of the silence of	he Genes" Curr. Op. Gen. Dev.	0:562-567.	
	85.	Que et al. (1997) "The Frequency and	Degree of Cosuppression by Sen	se Chalcone Synthase	
	33.	Transgenes Are Dependent on Transge	ene Promoter Strength and Are Reduced by Premature		
	ļ	Nonsense Codons in the Transgene Co			
	86.	Regalado (2002). "Turning Off Genes	Sheds New Light On How They	Work" The Wall Street	
	07	Journal: 4 pages. Sarver et al. (1990) "Ribozymes as Pot	ential Anti-UIV 1 Theraneutics	Agents' Science 247:1222	
	87.	1225.	•	_ · _	
	88.	Schaller (2003) "The Role of Sterols in 175.	Plant Growth and Developmen	t" Prog. Lipid Res. 42:163-	
	89.	Schmidt (2004) "RNA Interference De	tected 20 years ago" Nat. Biotec	hnol. 22: 267-268.	
	90.	Schmidt et al. (1983) "Cycloheximide	Induction of Aflatoxin Synthesis	in a Nontoxigenic Strain of	
],0.	Aspergillus Flavus" Bio/Technology 1			
	91.	Schmidt et al. (1986) "Viral Influences	on Aflatoxin Formation by Asp	ergillus Flavus" Appl	
	ļ	Microbiol. Biotechnol. 24: 248-252.	'DMA E COLL NO.	5: 1 5 13	
92. Schwartz et al. (2002) "Evidence that siRNAs Function as Guides, Not Primers in the Drosophila Human RNAi Pathways" Molecular Cell 10: 537-548.				Primers in the Drosophila and	
	93.	Sharp (1999) "RNAi and Double-Stran		nent 13(2): 139-141.	
- -	94.	Shi et al. (1998) "A CBP/p300 Homolo	og Specifies Multiple Differentia	tion Pathways in	
BW		Caenorhabditis Elegans" Genes and De			
EXAM	NER:		DATE CONSIDERED:		
		ial if citation considered, whether or not the citation to considered. Include a copy of this form with n		ne through the citation if not in	

HOV 1 8 2804 B

Form PTO 1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 546322000321	Application Number 09/646,807						
Applicant							
Michael Wayne GRA	HAM and Robert Norman RICE						
Filing Date December 5, 2000	Group Art Unit 1636						

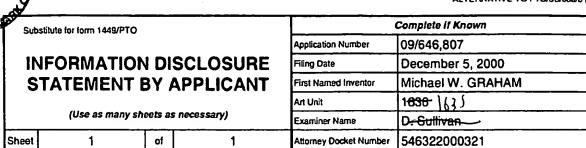
November 2, 2004

BW	95.	Sinha (1997) "2 Large-Scale Synthesis: Approaches to Large-Scale Synthesis of Oligodeoxynecleotides and their Analogs" Antisense From Technology to Therapy Lab Manual and Textbook 6: 30-58.
	96.	Skripkin et al. (1996) "Psoralen Crosslinking Between Human Immunodeficiency Virus Type 1 RNA and Primer tRNA ₃ ^{Lys*} Nucleic Acids Research, Vol. 24, No. 3: 509-514.
	97.	Steinecke et al. (1992) "Expression of a Chimeric Ribozyme Gene Results in Endonucleolytic Cleavage of a Target mRNA and a Concomitant Reduction of Gene Expression in vivo" Nucleic Acids Res. 23:2259-2268.
	98.	Strauss (1999). "Candidate Gene Silencers' Found" Science 286: 886.
	99.	Sullenger et al. (1990) "Expression of Chimeric tRNA-Driven Antisense Transcripts Renders NIH 3T3 Cells Highly Resistant to Moloney Murine Leukemia Virus Replication" Mol. Cell. Biol. 10:6512-6523.
	100.	Sullenger et al. (1993) "Tethering Ribozymes to a Retroviral Packaging Signal for Destruction of Viral RNA" Science 262:1566-1569.
•	101.	Svoboda, P. et al. (2001) "RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA" Biochem Biophys Res Commun. 287(5): 1099-1104.
	102.	Tijsterman et al. (2002) "The Genetics of RNA Silencing" Ann. Rev. Genet. 36:489-519.
	103.	Timmons et al. (1998) "Specific Interference by Ingested dsRNA" Nature 395: 854.
	104.	Uhlmann et al. (1990) "Antisense Oligonucleotides: A New Therapeutic Principle" Chemical Reviews (9) 4: 544-584.
	105.	Watson (1988) "A new revision of the sequence of plasmid pBR322" Gene 70:399-403.
	106.	Weaver et al. (1981) "Introduction by molecular cloning of artifactual inverted sequences at the 5' terminus of the sense strand of bovine parathyroid hormone cDNA" PNAS 78: 4073-4077.
BW	107.	Wess et al. (2003) "Early Days for RNAi" BioCentury, Vol. 11, No. 12: A1-23.
	108.	Written Opinion mailed on April 17, 2004, for PCT application no PCT/USU3/UTT// filed September
	ļ	9, 2003: 7 pages.
BW	109.	Yam et al. (2002) "Design of HTV Vectors for Efficient Gene Delivery into Human Hematopoietic Cells" Molecular Therapy 5 (4): 479-484.
BW	110.	Yamamoto et al. (1997) "Inhibition of Transcription by the TAR RNA of HIV-1 in a Nuclear Extrac of HeLa Cells" Nucleic Acids Research 25 (17): 3445-3450.
BW	111.	Yee et al. (2001) "Prospects for Gene Therapy Using HIV-Based Vectors" Somatic Cell and Molecular Genetics, Vol. 26, Nos. 1/6:159-173.
BW	112.	Zhao et al. (1993) "Generating Loss-of-Function Phenotype of the Fushi Tarazu Gene with a Targete Ribozyme in Drosophila" Nature 365:448-451.

Mailing Date

EXAMINER: /Brian Whiteman/ DATE CONSIDERED: 06/20/2006

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



	U.S. PATENT DOCUMENTS					
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No.1	Number-Kind Code ² (# known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
BW	AA	US 4,766,072	08-23-1988	Jendrisak et al.		
1	AB	US 2003/0056235 A1	03-20-2003	Fire et al.		
	L	with amendments				
	AC	US 2004/0064842 A1	04-01-2004	Graham et al.		
	AD	US 2004/0237145 A1	11-25-2004	Graham et al.		
	AE	US 2003/0159161 A1	08-21-2003	Graham et al.		
	AF	US 2004/0180439 A1	09-16-2004	Graham et al.		
TOTAT	AG	US 2004/0266005 A1	12-30-2004	Graham et al.		

FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,		
Initials*	No.	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	₽	
BW	BA	WO 97/44450	11-27-1997				

^{*}EXAMINER: Initial if Information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.usplo.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		

^{*}EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner		Date	
	/Brian Whiteman/		06/20/2006
Signature	/Brian Whiteman/	Considered	00/20/2000

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Sul	estitute for form 1449/PTC			Complete If Known			
				Application Number	09/646,807	_	
11	NFORMATIO	N DI	SCLOSURE	Filing Date	December 5, 2000	-	
STATEMENT BY APPLICANT				First Named Inventor	Michael W. GRAHAM		
				Art Unit	1636 \67)	_	
	(Use as many s	sheets as	s necessary)	Examiner Name	D. Sullivan	_	
Sheet	1	of	1	Attorney Docket Number	546322000321	_	

	U.S. PATENT DOCUMENTS					
Examiner Initials* Cite No. 1 Number-Kind Code ² (il known) N						
BW	AA	US 5,578,716	11-26-1996	Szyf et al.		
BW	AB	US 5,998,383	12-07-1999	Wright et al.		

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.'	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (il known)	Publication Date MM-OD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	۳٥	
BW	BA	WO 95/15378	06-08-1995				

"EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.usofo.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

	•	NON PATENT LITERATURE DOCUMENTS	•			
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
BW	CA	Agrawal et al. (2000) "Antisense therapeutics: is it as simple as complementary base recognition?" Molecular Medicine Today 6: 72-81.				
СВ		Cameron et al. (1994) "Multiple Domains in a Ribozyme Construct Confer Increased Suppressive Activity in Monkey Cells" Antisense Research and Development 4: 87-94.				
	CC	Harborth et al. (2003) "Sequence, Chemical, and Structural Variation of Small Interfering RNAs and SHort Hairpin RNAs and the Effect on Mammalian Gene Silencing" Antisense and Nucleic Acid Drug Development 13: 83-105.				
	CD	Holen et al. (2002) "Positional effects of short interfering RNAs targeting the human coagulation trigger Tissue Factor" Nucleic Acids Research 30 (8): 1757-1766.				
	CE	Jen et al. (2000) "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies" Stem Cells 18: 307-319.				
	CF	McManus et al. (2002) "Gene Silencing using micro-RNA designed hairpins" RNA 8: 842-850.				
	CG	McManus et al. (2002) "Small Interfering RNA-Mediated Gene Silencing in T Lymphocytes" Journal of Immunology 169: 5754-5760.				
	СН	Opalinska et al. (2002) "Nucleic-Acid Therapeutics: Basic Principles and Recent Applications" Nature Reviews 1: 503-514.				
BW	CI	Randall et al. (2003) "Clearance of replicating hepatitis C virus replicon RNAs in cell culture by small interfering RNAs" PNAS 100 (1): 235-240.				

^{*}EXAMINER: Initial if Information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached.

Examinar	/Brian Whiteman/	Date	
Signature	/Brian Whiteman/	Considered	06/20/2006

JUN 3 0 2005

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute for form 1449/PTO

(Use as many sheets as necessary)

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (if known)	Publication Date MM-OD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

1

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code* - Number*-Kind Code* (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°	
DW	1.	WO-99/09045	02-25-1999	Somagenics, Inc.			

"EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
-	2	European Search Report mailed June 3, 2005, for European patent	
		application no. 04015041, filed March 19, 1999, 4 pages	
BW	3.	BASS, Brenda L. (May 24, 2001) "RNA Interference: The Short Answer," Nature, 411:428-429	
BW	4. ·	HARBORTH, Jens et al. (2001) "Identification of Essential Genes in Cultured Mammalian Cells Using Small Interfering RNAs," Journal of Cell Science, 114:4557-4565	
BW	5.	MANCHE, Lisa et al. (Nov. 1992) "Interactions Between Double- Stranded RNA Regulators and the Protein Kinase DAI," Molecular and Cellular Biology, 12(11):5238-5248	
	6.	PADDISON, Patrick J. et al. (July 2002) "RNA Interference: The New	
BW		Somatic Cell Genetics?" Cancer Cell, 2:17-23	

^{*}EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	/Brian Whiteman/	Date Considered	06/20	/2006

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

JAN 2 5 2006

PTO/SB/08a (07-05) Approved for use through 07/31/2006, OMB 0651-0031

Complete if Known

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE ons are required to respond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute for form 1449A/PTO

Sheet

Application Number 09/646,807 Filing Date December 5, 2000 First Named Inventor Michael W. Graham Art Unit Sean McGarry Whit co Examiner Name Attorney Docket Number BENI/0022.P1

(Use as many sheets as necessary) of 1

NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of T² Cite Examiner the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue No.1 Initials * number(s), publisher, city and/or country where published. Stam et al. (1997) "Post-transcriptional silencing of chalcone synthase in Petunia by C1 inverted transgene repeats" The Plant Journal 12(1): 63-82 BW Australian Written Opinion for SG200203122-3, dated October 24, 2005 (BENI/0022.0G)

Examiner		Date	
Signature	/Brian Whiteman/	Considered	06/20/2006

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.